

SGIPnews

Yes, Virginia, There is Interoperability

Nearly 700 attendees, both in person and remote, participated in our Winter Face-to-Face and Grid-Interop. Held in partnership with Clasma, GridWise Architecture Council and Department of Energy, more than 100 industry-leading speakers in 30 sessions covered critical areas of progress and opportunity related to: information interoperability, architecture, business, policy, and cross-cutting issues like cyber security.

Thanks to the amazing Plug-In participants, attendees viewed implementation and interoperability at work. Each day, the agenda highlighted real-life implementation of our work. One of the most popular session was Green Button. The session included a presentation of the three-legged stool components with regard to ESPI/Green Button – NAEBS Standards, UCAIug testing and certification, and OpenESPI running code. Group discussed the critical monitoring points as independent organizations start rolling out Green Button perhaps in a DEWG or in a new PAP.

Due to the volume of on-going work and discussion, the SGIP Governing Board convened for a twoday event on both Sunday evening and Monday morning (to view these presentations, [click here](#)). At the Closing Plenary session on Thursday, Plenary Chair Steve Widergren announced the much anticipated Governing Board election results ([click here](#)) and Secretary David Mollerstuen provided highlights from the week (see below).

U.S., Europe Working Together on Smart Grid Standards Development

The Smart Grid Interoperability Panel (SGIP) and the European Union's (EU) Smart Grid Coordination Group (SG-CG), on December 5, 2011, signed a Letter of Intent to cooperate on Smart Grid efforts. The new collaboration is meant to ensure that Smart Grid standards on both continents have as much in common as possible, so that devices and systems that interact with the Smart Grid can be designed in similar fashion.

The Letter of Intent describes the areas and methods to enhance coordination, and it outlines specific focus areas for short, medium, and long-term activities.



SGIP Governing Board Chair John McDonald and the EU's Smart Grid Collaboration Group (SC-CG) Chairman Ralph Sporer shakes hands after signing the Letter of Intent.

Areas highlighted as short-term activities include:

- Establishment of a Harmonized Conceptual Model
- Use Cases and Application Descriptions
- Cyber Security Requirements

Areas highlighted as medium- to long-term activities include:

- Smart Grid Interoperability Architecture
- Testing and Certification of Smart Grid Interoperability Standards Compliance

In addition to these specific areas of collaboration, the two organizations will cooperate in facilitating the timely development of international specifications to remedy identified gaps in Smart Grid standards. The methods of cooperation will include information sharing and joint workshops.

Both the SGIP and the SG-CG have mandates to coordinate the development of a standards framework for Smart Grid, which can unlock innovation in the electrical sector. The SG-CG represents three private-sector standards organizations: the European Committee for Standardization (CEN), the European Committee for Electrotechnical Standardization (CENELEC) and the European Telecommunications Standards Institute (ETSI).^{*} The SGIP is a public/private partnership established by the National Institute of Standards and Technology (NIST), an agency of the U.S. Department of Commerce.

The Letter of Intent, signed by SG-CG's Ralph Sporer and SGIP's John McDonald at Grid-Interop 2011, results from a September 2011 joint whitepaper authored by NIST and the SG-CG that laid out the principles for cooperation.

"We want this letter to be more than just a piece of paper," said Ralph Sporer, Chairman of SG-CG. "I am confident that we will be able to fill it with life. Already, we have begun collaborations and discussions between our two organizations, and this letter will enable us to do this in a more systematic way."

"Encouraging the development and adoption of international Smart Grid standards is one of our highest priorities," said John McDonald, Chair of the SGIP Governing Board. "In support of our growing engagement in international outreach, the Governing Board recently created an International Task Force to oversee our expanding efforts. Our collaboration with the E.U.'s SG-CG is a very important step forward on that path."

To read full article, please visit: <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/Dec2011LOIArticle>.

Session Round Up

Priority Action Plans

- PAP 3 – Common Specification for Price and Product: EMIX recommend for inclusion in Catalog of Standards (CoS), now with Governing Board. Work complete, closing soon.
- PAP 6 – Common Semantic Model for Meter Data Tables: Model, White Paper expected by end of year. Expect PAP completion by end of Q1 2012.



One of the panel sessions held during the week.

- PAP 7 – Electric Storage Interconnection Guidelines: IEC 61850-90-7 has been submitted to the IEC, with expect Q1 2012 release as a technical report standard. Discussed the IEEE 1547.8 DER communications requirements effort.
- PAP 9 – Standard DR and DER Signals: Monitoring Energy Interoperation progress; expected to finish Q1 2012. Robust discussion on application space for Consumer Domain.
- PAP 12 – Mapping IEEE 1815 (DNP3) to IEC 61850: IEEE Std 1815-2010 (DNP3) is ready for CoS vote. IEEE P1815-2012 (new release) is nearing completion with a new security section (Version 5).
- PAP 13 – Harmonization of IEEE C37.118/IEC 61850: Pending SGAC review, IEC 61850-90-5 is ready to begin CoS process.
- PAP 14 – T & D Power Systems Model Mapping: Documents reviewed to move the IEEE C37.239 COMFEDE into the CoS. Identified plans to develop a guideline for implementation of the COMFEDE standard including specific use cases. Reviewed IEEE Power System Relay Committee Working Group H5 document and plans to publish "Common Format for IED Configuration Data" as a Technical Report early 2012.
- PAP 16 – Wind Plant Communications: The IEC maintenance team for 61850 and 61400-25-2 has begun looking into the weather data collected at substations and windfarms for better forecasting. Implementation of the revised 61400-25-2 needs to be broadcast to the ISOs and others making wind farm reports (asked Implementation Working Group for assistance).
- PAP 17 – Facility Smart Grid Information Standard: Presented in depth the systems engineering approach pursued by ASHRAE/NEMA SPC201P. Reviewed incorporated standards reuse methodology and identified two new Use Cases.
- PAP 18 – SEP 1.x to SEP 2 Transition and Co-existence: PAP's close-out session covered history, PMO discussion and next steps.
- EV Fast Charge Priority Action Plan (to be proposed): Key consensus reached on DC Fast Charge proposal with relevant stakeholders. SGIP Administrator and Governing Board will review for January meeting.

Standing Committees and Domain Expert Working Groups

- Building-to-Grid (B2G)/Industry-to-Grid (I2G) DEWGs: Working toward EPRI CIM extension project to align with WXXM weather standard to promote better interoperability with Facility Smart Grid Information Model and international standards. Facility Energy Services Interface White Paper V8.1 is posted on the TWiki, bringing together the different perspectives on the facility interface to the grid service providers. IEC PC118 Smart Grid Interface has been established. Scope conflict with other IEC standards and SGIP standards. First meeting in China Feb 8-10. Need to build a US TAG to develop the US position on coordinating standards work.
- Transmission and Distribution (TnD) DEWG: Reviewed the latest draft of the Transmission Bus Load Model as well as Framework comments.
- Vehicle-to-Grid (V2G) DEWG: Invited to collaborate with Governing Board Vision, Mission & Roadmap

- Group at January EV Workshop. Agreed on "Crossing the Chasm" timeline (draft) for V2G infrastructure.
- Cyber Security Working Group(CSWG): Announced a set of privacy awareness and training slides for utilities and a future set for PUCs. Final review of the assessment guide for the NISTIR 7628. Completed 8 cybersecurity standards for Q3 and Q4. Announced the Cyber-Physical call for abstracts for upcoming workshop.
- SG Architecture Committee (SGAC): Approved first four versions of IEC 61850 Standard for the SGIP Catalog of Standards. Reviewed the Work of the European Communities (CEN, CENELEC and ETSI) to integrate the work of the SGAC Conceptual Model into their framework for Smart Grid Architecture Models
- SG Testing and Certification Committee (SGTCC): Review of IPRM v2 final draft, agreement reached on a few final changes. SGTCC will hold its final vote for approval during the second half of December. End-to-End Testing work group revised its charter to focus on collecting and sharing existing non-proprietary test cases contributed by utilities, and consolidating for broad acceptance and usage.

Other Key Groups

- Bylaws and Operating Procedures Working Group (BOPWG): Agreed to review and document the GB Candidate Evaluation Committee process and determine if bylaw and or O&P changes are needed. Agreed to look into GB positions and limits on the number of members from a Participating Member organization, the relationship of at-large positions to positions voted upon by specific stakeholder categories, and the potential for flooding categories with candidates to impact board make-up.
- Communications, Marketing, and Education (CMEWG): Moving forward with the first survey of SGIP membership to implement in mid-January 2012. Develop value propositions for each stakeholder community with the assistance of the stakeholder-specific Governing Board members.
- International Task Force: Spirited discussion on four topics -- NIST's International Priorities, Responsibilities of International Coordination Teams, Marketing/Value Statement of the SGIP and the Template for SGIP LOIs.

Session materials can be found here on TWiki: <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/WinterF2F2011>

Contact SGIP Leadership and Administrator at sgipgb.administrator@enernex.com.

EnerNex serves as the SGIP Administrator under a NIST-awarded contract. For more information, [click here](#).

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